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I certify that on JULY 15, 04, which is the date I am signing this certificate, this correspondence and all listed attachments are being deposited with the United States Postal Service Certified First Class Mail and is addressed to

Mail Stop Petition
Commissioner of Patents,
P.O. Box 1450
Alexandria, VA 22313-1450

X:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Applicant: NIU, XI XIAN

Application Number: 10/781,221

Filing Date: 02/18/2004

Name of Application: ACTIVE CARBON-BASED NANTOUBE (CNT) BATTERY

PETITION TO MAKE SPECIAL

Mail Stop Petition (to Make Special)
Commissioner for Patents and Trademarks
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Group Director:

This is a petition to make special for expedited examination minus a petition fee under on the ground that said invention titled "CNT BATTERY," developed by Niu, Xi Xian, is an "Active Carbon Nanotube Battery" which materially enhances the quality of the environment and materially contributes to the development or conservation of energy resources 37 CFR §1.102(c). The invention also allows more efficient utilization and conservation of energy resources.

The improved way of using the Active Carbon Nanotube (CNT) Battery is green technology, and is greener than existing batteries in the current market as stated in the patent application itself:

1. The current batteries have long charging time. This can make people buy more batteries to switch between to have a charged one on hand.
2. The current batteries are overweight, and the excess waste is pollution. The common power ratio for lead-based battery is only around 30-40 Wh/Kg. The inconvenience of an overweight battery greatly limits the further application scope and exceedingly reduces the efficiency of common transportation devises like automobiles, trains, airplane, boats, tanks, etc., which in fact are both the main reasons that electrical automobiles cannot be popularized in the recent markets;

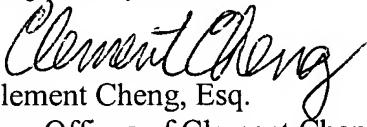
3. The current invention is created to overcome said defects and insufficiencies by providing an Active Carbon-based Nanotube (CNT) battery, which can receive large current charging to shorten charging time, and has a high power ratio to reduce the battery weight in order to broaden the battery application scope in modern life. The reduced weight and the increased charging current of this CNT battery dramatically increased the whole power ratio to 300Wh/Kg, while the action power can reach higher than 1000W/Kg. The present invention has both battery and capacitor's characteristics. The capacitor is from 8 uf to 3000 uf, and the battery capacity is from 150mAH to 200AH. The battery action current can reach 20000AH. The weight of the invention is only one eleventh (1/11) and the volume is only one sixth (1/6) comparing to a lead-based battery. The shortest charging time is 90 seconds. It can be widely applied in industrial field, mass transportation, national defense purposes etc.

There are several documents being attached to prove the actual greenness of the technology.

1. The first document is a discharge curve from tests showing that the improved battery has superior performance even though it weighs less and uses fewer materials.
2. The second document is a bilingual newspaper article showing that the CNT battery stores 10 times the power of conventional lead acid batteries.
3. The third document is an exhibition of CNT battery technology by the applicant.

This powerful yet compact invention is green technology, which will greatly reduce the use of gas and other toxic energy sources in current markets. For the above reasons, applicant hereby requests this petition be granted.

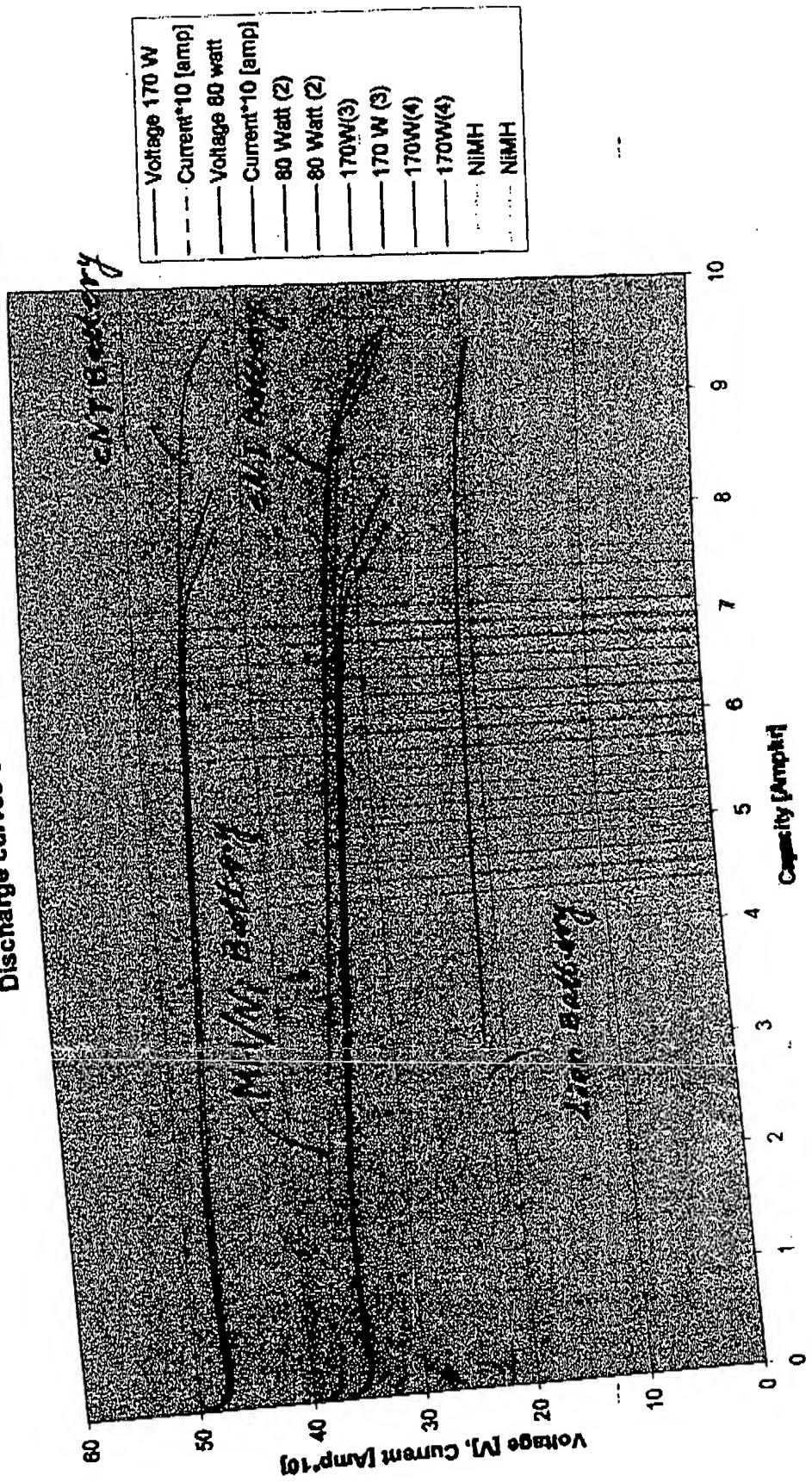
Respectfully Submitted,


Clement Cheng, Esq.
Law Offices of Clement Cheng

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Spark battery (cNt.)
Discharge curves 80 and 170 W load



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Overseas investments increased from 1.4 billion US dollars in 1999, up 20 percent, to 1.7 billion US dollars in 1998.

New vehicle made

Zhao Jianchuan

A NEW "super battery" auto of nanophosphate fibre was recently developed and produced by the Shenzhen Autoelectric Vehicle Co.

It is said to be the first of its kind ever created.

This significant achievement is regarded as a milestone in the development of electric cars. The corporation, which also produced China's first electric car, is said to have

already received 700 million yuan (US\$84.8 million) worth of orders from 150 enterprises both at home and abroad.

Niu Xian, an expert on electric cars and president of the corporation, said that the fibre used in the manufacturing process is only 30 nano-

metres (nm) in diameter, or

0.0002 millimetres (mm). Fibres are made into strings, multi strings into coats. This structure enables the new battery to store 10 times the power of conventional lead acid batteries.

And how does it work? An electric car, e-vehicle, with the new batteries

is charged with the new battery, with the new batteries with the new batteries before needing a recharge, and it takes only 16-20 minutes to fully recharge. Niusaid that the battery can be charged 1,000 times.

He said that at present only three institutions in the world have worked out the techniques required for the bat-

tery, but his corporation is the first to be able to produce it. He is now applying for patents for the product both in China and the United States.



Olympic team Chef de Mission Louise Ramsay (R) and administrator Stephen Farley (C) chat with an athlete following the team's flag raising at the athletes village in Sydney yesterday. The Games begin on September 15. (More on P5)

Wu Yan

SZ pioneer vehicles

News 11:00 am
22080001-5133333

"Ma continued to change to the profound place," Ma continued. "Ma's SZ experience is more than the city itself. He older than the city itself. What counts is not the lens

"I ARRIVED in Shenzhen in 1949 when I was 17 years old.

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PAGE

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深圳将建设深港合作区，打造深港合作新模式。深圳将借鉴香港经验，通过深港合作区的建设，促进深港两地优势互补、共同发展，提升深圳国际竞争力，增强香港辐射带动作用，实现深港互利共赢。

趋势 运行

“信息、材料”专题院士沈昌祥“信息
思与对策”，工程院院士
学教授、国家863计
域首席科学家吴澄
业化一企业信息化和
是提高我国企业竞争
法”，中科院院士、中
导体研究所所长郑厚植
信息载体量子化对新
光电子技术的影响”。
原、环境”专题包括：
· 上海生物工程研究
胜利“生物技术产业”
，工程院院士、广东
限公司的专家郑健超
——通往可持续发展
”，中科院院士傅家诚
发展地区环境质量演
发展”的若干问题”。

卫生院
80人

2002年，清华大学经管学院计划招收全日制硕士生（其中100名为清华生），博士生30名。博士后、软件专业第二学士生中一半在深圳本地招录。今年该院除继续在深圳招收工商管理硕士（MBA）、工程硕士外，经国务院学位办批准，名额招收公共管理硕士法律硕士（JM）各30人。清华大学深圳研究生院人数将达680人。



外离膏膜纳米碳纤维电池
种电池比铅酸电池体积小,放电时间长。

昨日，在市民中心展馆前面，最新绿色环保能源——纳米碳纤维电池受到外商青睐。这

本报记者 刘基善 摄

本报

本集团

【本报讯】“2001中国报业经营创新奖”昨日在京闭幕。由中国报业协会评选的首届中国报业经营创新奖和优秀论文奖亦在此次年会上揭晓。本报参评的三篇作品全部获奖。集团社长吴松营的《强化优势型、开拓进取》及总经理陈君华于报业经营主体多元化、构筑

专场签约 21 项
我市民企大步进

【本报讯】(记者��斌)昨天气氛,在这里举办的深圳市总商会11家民营企业现场签订21项达15.5亿元人民币,这表明深梁,在进军高新技术产业的路上。在总商会签约专场成交的项目、生物工程、新材料等。这些领先世界潮流的尖端技术:彩电技术开发生产项目;思创集团开发先进电子网络、计算机新技术外,西风集团与重庆市教委签订系统的协议,展现了我市民营和风貌。

海外侨胞喜获丰收

昨在高交会签约16项 总金额16.55亿元

【本报讯】（记者陆云红）昨天，高交会展馆B馆二楼新闻发布厅内响彻着广东音乐《喜洋洋》，近百名来深参加高交会的海外华裔华侨科学家、企业家在这里分享丰收的喜悦：与国内有关企业共签订开发高新技术的合同或协议16项，总金额

16.56亿元人民币

这些项目涉及生物工程、风险投资、环保等领域。包括：美国国家工程院院士王兆凯教授和深圳市西部高技术创业中心共同组织“深圳兆凯海莲生物药物有限公司”。该项目总投资额1亿元人民币，

市牛满江生物
有限公司和深
技术开发有限
1亿元人民币
中试基地等

外侨胞项目组
政治处中说，高
和留学生一直重
量，并在海外义
务工作；地
一如既往地
参与和支持海
发展。

[Translation]

[Excerpts from a newspaper article]

[Photo]

[Caption] Overseas businessmen noticed carbon nanotube batteries – Yesterday, in front of the Citizen Exhibition Hall, the new green - nanotub batteries were noticed by overseas businessmen. This kind of batteries are smaller than the lead acid batteries and has lost lasting power effect.

Photo was taken by LIU, Tingh Feng, Reporter